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|                                   |                   |      |            | Application Number     | 10-722,145        |
| INFORMATION DISCLOSURE            |                   |      |            | Filing Date            | November 24, 2003 |
| STA                               | TEMENT            | BY A | PPLICANT   | First Named Inventor   | Lester F. Ludwig  |
|                                   |                   |      |            | Group Art Unit         |                   |
| (use as many sheets as necessary) |                   |      | necessary) | Examiner Name          |                   |
| Sheet                             | 1                 | of   | 13         | Attorney Docket Number | 2738-29           |

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|                      |              |   | U.S. PATENT                    | OCUMENTS   |  |
|----------------------|--------------|---|--------------------------------|--|--|
| Examiner<br>Initials | Cite<br>No.' | Document Number  Number - Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevan<br>Passages or Relevant<br>Figures Appear |
| -114                 | A1           | US-1,947,020  | 02-13-1934                     | Ranger   |  |
| )_                   | A2           | US-3,493,669  | 02-03-1970                     | Elbrecht et al.                                    |  |
| 7                    | A3           | US-3,591,699  | 07-06-1971                     | Cutler   |  |
|                      | A4           | US-3,612,741  | 10-12-1971                     | Marshall   |  |
| 1                    | A5           | US-3,651,242  | 03-21-1972                     | Evans  |  |
| 1                    | A6           | US-3,730,046  | 05-01-1973                     | Spence   |  |
|                      | A7           | US-3,742,133  | 06-26-1973                     | Cohen  |  |
|                      | A8           | US-3,805,091  | 04-16-1974                     | Colin  |  |
|                      | A9           | US-3,813,473  | 05-28-1974                     | Terymenko  |  |
| I                    | A10          | US-3,878,748  | 04-22-1975                     | Spence   |  |
|                      | A11          | US-3,956,959  | 05-18-1976                     | Ebihara et al.                                     | 1  |
| 1                    | A12          | US-3,962,945  | 06-15-1976                     | Creager et al.                                     |  |
| 1                    | A13          | US-4,075,921  | 02-28-1978                     | Heet   |  |
|                      | A14          | US-4,080,867  | 03-28-1978                     | Ratanangsu   |  |
| 1                    | A15          | US-4,117,413  | 09-26-1978                     | Moog   |  |
|                      | A16          | US-4,122,742  | 10/31/1978                     | Deutsch  |  |
|                      | A17          | US-4,151,368  | 04-24-1979                     | Fricke et al.                                      |  |
|                      | A18          | US-4,182,213  | 01-08-1980                     | lodice   |  |
| V                    | A19          | US-4,274,321  | 06-23-1981                     | Swartz   |  |
| THE                  | A20          | US-4,318,327  | 03-09-1982                     | Toups  |  |

|                       |                          | FOREIGN   | PATENT DOCU                    | MENTS                        | . *  | _              |
|-----------------------|--------------------------|---|--------------------------------|------------------------------|--|----------------|
| Examiner<br>Initials* | Cita                     | Foreign Patent Document   |                                | Name of Patentee or          | Pages, Columns, Lines,                             |                |
|                       | Cite<br>No. <sup>1</sup> | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY | Applicant of Cited  Document | Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
| M                     | B1                       | EP-0 574 213-A1   | 12-15-1993                     | Synaptics, Inc.              |  |                |
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3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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| Sheet                         | 2                | of     | 13         | Attorney Docket Number | 2738-29           |  |  |

|                    |     |   | U.S. PATENT                    | OCUMENTS   |   |
|--------------------|-----|---|--------------------------------|--|---|
| Examiner Cite No.1 |     | Document Number  Number - Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant |
|                    |     | <del></del>   |                                |  | Figures Appear  |
| 1/4                | A21 | US-4,365,533  | 12-28-1982                     | Clark, Jr. et al.                                  |   |
| <u> </u>           | A22 | US-4,781,099  | 11-01-1988                     | Koike  |   |
|                    | A23 | US-4,794,838  | 01-03-1989                     | Corrigau, III                                      |   |
|                    | A24 | US-4,797,608  | 01-10-1989                     | White  |   |
|                    | A25 | US-4,852,444  | 08-01-1989                     | Hoover et al.                                      |   |
|                    | A26 | US-4,991,488  | 02-12-1991                     | Fala et al.  |   |
|                    | A27 | US-5,033,352  | 06-23-1991                     | Kellogg et al.                                     |   |
|                    | A28 | US-5,045,687  | 09-03-1991                     | Gurner   |   |
|                    | A29 | US-5,070,399  | 12-03-1991                     | Martel   |   |
|                    | A30 | US-5,146,833  | 09-15-1992                     | Lui ·  |   |
|                    | A31 | US-5,159,140  | 10-27-1992                     | Kimpara et al.                                     |   |
|                    | A32 | US-5,218,160  | 06-08-1993                     | Grob-Da Veiga                                      |   |
|                    | A33 | US-5,233,123  | 08-03-1993                     | Rose et al.  | •   |
| <u>.</u>           | A34 | US-5,262,585  | 11-16-1993                     | Greene et al.                                      |   |
|                    | A35 | US-5,281,754  | 01-25-1994                     | Farrett et al.                                     |   |
|                    | A36 | US-5,292,999  | 03-08-1994                     | Tumura   |   |
|                    | A37 | US-5,357,048  | 10-18-1994                     | Sgroi  |   |
| 51/                | A38 | US-5,378,850  | 01-03-1995                     | Tumura   |   |
| <b>V</b>           | A39 | US-5,440,072  | 08-08-1995                     | Willis   |   |
| 1,14.}             | A40 | US-5,442,168  | 08-15-1995                     | Gurner et al.                                      |   |

|                    |      | FOREIGN   | PATENT DOCU                    | MENTS                          |  |                |
|--------------------|------|---|--------------------------------|--------------------------------|--|----------------|
| Examiner Cite No.1 | Cit- | Foreign Patent Document   |                                | Name of Patentee or            | Pages, Columns, Lines,                             |                |
|                    |      | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if knawn) | Publication Date<br>MM-DD-YYYY | Applicant of Cited<br>Document | Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
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|          |                        |               |            | Application Number     | 10-722,145        |  |  |  |
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| STA      | TEMEN                  | IT BY A       | PPLICANT   | First Named Inventor   | Lester F. Ludwig  |  |  |  |
|          |                        |               |            | Group Art Unit         |                   |  |  |  |
|          | (use as ma             | any sheets as | necessary) | Examiner Name          |                   |  |  |  |
| Sheet    | 3                      | of            | 13         | Attorney Docket Number | 2738-29           |  |  |  |

|                        |              | Document Number                            | U.S. PATENT                    | Name of Patentee or Applicant of |   |  |
|------------------------|--------------|--|--------------------------------|----------------------------------|---|--|
| Examiner<br>Initials * | Cite<br>No.1 | Number - Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Cited Document                   | Pages, Columns, Lines, Where Releva<br>Passages or Relevant<br>Figures Appear |  |
| M                      | A41          | US-5,459,282                               | 10-17-1995                     | · Willis                         |   |  |
| <u> </u>               | A42          | US-5,471,008                               | 11-28-1995                     | Fujita et al.                    |   |  |
|                        | A43          | US-5,475,214                               | 12-12-1995                     | DeFranco et al.                  |   |  |
|                        | A44          | US-5,565,641                               | 10-15-1996                     | Gruenbaum                        | 202 1 1   |  |
|                        | A45          | US-5,585,588                               | 12-17-1996                     | Tumura                           |   |  |
|                        | A46          | US-5,659,145                               | 08-19-1997                     | Weil                             |   |  |
|                        | A47          | US-5,659,468                               | 08-19-1997                     | Norris et al.                    |   |  |
|                        | A48          | US-5,665,927                               | 09-09-1997                     | Taki et al.                      |   |  |
|                        | A49          | US-5,668,338                               | 09-16-1997                     | Hewitt et al.                    |   |  |
|                        | A50          | US-5,675,100                               | 10-07-1997                     | Hewlett                          |   |  |
|                        | A51          | US-5,741,993                               | 04-21-1998                     | Kushimiya                        |   |  |
|                        | A52          | US-5,763,806                               | 06-09-1998                     | Willis                           |   |  |
|                        | A53          | US-5,786,540                               | 06-28-1998                     | Westlund                         |   |  |
|                        | A54          | US-5,827,989                               | 10-27-1998                     | Fay et al.                       |   |  |
|                        | A55          | US-5,850,051                               | 12-15-1998                     | Machover et al.                  |   |  |
|                        | A56          | US-5,852,251                               | 12-22-1998                     | Su et al.                        |   |  |
|                        | A57          | US-5,932,827                               | 08-03-1999                     | Osborne et al.                   |   |  |
| الد                    | A58          | US-5,969,283                               | 10-19-1999                     | Looney et al.                    |   |  |
| V                      | A59          | US-6,047,073                               | 04-04-2000                     | Norris et al.                    |   |  |
| neb                    | A60          | US-6,051,769                               | 04-18-2000                     | Brown, Jr.                       |   |  |

|                       | FOREIGN PATENT DOCUMENTS |   |                                |                              |  |          |  |  |  |
|-----------------------|--------------------------|---|--------------------------------|------------------------------|--|----------|--|--|--|
| Examiner<br>Initials* | Cita                     | Foreign Patent Document   |                                | Name of Patentee or          | Pages, Columns, Lines,                                   |          |  |  |  |
|                       | Cite<br>No. <sup>1</sup> | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY | Applicant of Cited  Document | Where Relevant<br>Passages or Relevant<br>Figures Appear | T⁵       |  |  |  |
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|                                   |                      |      |          | Application Number     | 10-722 145        |  |  |
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| STA                               | TEMENT B             | SY A | PPLICANT | First Named Inventor   | Lester F. Ludwig  |  |  |
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| Cite<br>No.¹<br>A61<br>A62 | Document Number  Number - Kind Code <sup>2</sup> (if known)  US-6,100,461 | Publication Date<br>MM-DD-YYYY  | Name of Patentee or Applicant of<br>Cited Document   | Pages, Columns, Lines, Where Relevant   |
|----------------------------|---|---|--|---|
| A61<br>A62                 |   | MM-DD-YYYY  | Cited Document   |   |
| A62                        | US-6,100,461  |   |  | Passages or Relevant<br>Figures Appear  |
|                            |   | 08-08-2000  | Hewitt   |   |
|                            | US-6,140,565  | 10-31-2000  | Yamauchi et al.  |   |
| A63                        | US-6,204,441 B1   | 03-20-2001  | Asahi et al.   |   |
| A64                        | US-6,288,317 B1   | 09-11-2001  | Willis   |   |
| A65                        | US-6,310,279 B1   | 10-30-2001  | Suzuki et al.  |   |
| A66                        | US-6,320,112 B1 .   | 11-20-2001  | Lotze  |   |
| A67                        | US-6,360,019 B1   | 03-19-2002  | Chaddha  |   |
| A68                        | US-6,363,159 B1   | 03-26-2002  | Rhoads   |   |
| A69                        | US-6,392,705 B1   | 05-21-2002  | Chaddha  |   |
| A70                        | US,6,404,898 B1   | 06-11-2002  | Rhoads   |   |
|                            |   |   |  |   |
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|                            |   |   |  |   |
|                            | A65<br>A66<br>A67<br>A68<br>A69   | A65 US-6,310,279 B1 A66 US-6,320,112 B1 A67 US-6,360,019 B1 A68 US-6,363,159 B1 A69 US-6,392,705 B1 | A65 US-6,310,279 B1 10-30-2001 A66 US-6,320,112 B1 11-20-2001 A67 US-6,360,019 B1 03-19-2002 A68 US-6,363,159 B1 03-26-2002 A69 US-6,392,705 B1 05-21-2002 | A65 US-6,310,279 B1 10-30-2001 Suzuki et al.  A66 US-6,320,112 B1 11-20-2001 Lotze  A67 US-6,360,019 B1 03-19-2002 Chaddha  A68 US-6,363,159 B1 03-26-2002 Rhoads  A69 US-6,392,705 B1 05-21-2002 Chaddha |

|  | FOREIGN PATENT DOCUMENTS |  |  |                                |  |    |  |  |
|--|--------------------------|--|--|--------------------------------|--|----|--|--|
|  | Cite                     | Foreign Patent Document  |  | Name of Patentee or            | Pages, Columns, Lines,                             | T  |  |  |
|  | No.1                     | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if Publication Date MM-DD-YYYY |  | Applicant of Cited<br>Document | Where Relevant Passages or Relevant Figures Appear | T⁵ |  |  |
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| S                             | Sheet | 5          | of           | 13         | Attorney Docket Number | 2738-29           |  |  |

|                     | γ            | OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS   | _   |
|---------------------|--------------|---|-----|
| Examiner Initials * | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T 2 |
| NO Date             | C1           | "Biax True Stereo Pickups," product description, Musician's Friend catalog.   |     |
| Jest                | C2           | "Korg's New Z-1 Helps Fiddler Keep His Funk", Music and Sound Retailer, Mar. 1998.  |     |
| No Date             | С3 (         | "Synaptics Targets Vision, Sound processing."   |     |
| MS                  | Ċ4           | "Yamaha VL1", advertisement, Electronic Musician, Apr. 1994.  |     |
| ms                  | <b>C</b> 5   | APPELMAN, D. RALPH, The Science of Vocal Pedagogy, Theory and Applications, 1967, Indiana University Press, Bloomington, Indiana, USA.  |     |
| No Date             | C6           | Biaxe Ragamaster, Box 15426, Stamford, CI, 06901-0426, USA.   |     |
| by                  | C7           | BICANIC, DANE, ed. Photoacoustic and Photothermal Phenomena III. 1992, vol. 69, Springer-Verlag, Berlin Heidelberg, Germany.  |     |
| M                   | C8           | BORMANS, JAN "MPEG-4 systems need specialized CPUs", Electronic Engineering Times, Jan. 25, 1999.   |     |
| No Date             | C9           | Boss DF-2, Roland Corporation, 7200 Dominion Circle, Los Angeles, CA 90040-3696, USA  |     |
| No Date             | C10          | Boss OC-2 Service Manual, Reland Corporation, 7200 Dominton Circle, Los Angeles 90040-3696, CA, USA.  |     |
| No Dat              | E C11        | Boss SE-70 Super Effects Processor Algorithm Guide, Reland-Corporation, 7200 Dominion Circle, Los Angeles, CA 90040-3696, USA.  |     |

| Examiner<br>Signature | Mala Fados | Date<br>Considered | 8/19/07 |  |
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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|                                   |                 |        |          | Filing Date            | November 24, 2003 |  |
| 21A                               | IEMEN           | IBAY   | PPLICANT | First Named Inventor   | Lester F. Ludwig  |  |
| •                                 |                 |        |          | Group Art Unit         |                   |  |
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|                        |              | OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS   |     |
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| Examiner<br>Initials * | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T 2 |
|                        | C12          | Boss SE-70 Super Effects Processor Owners Manual, Roland Corporation 7200 Dominion Circle, Los Angeles, CA 90040-3696, USA.   |     |
|                        | C13          | CP-40 Pitch to Midi Converter, Roland, 7200 Dominion Circle, Los Angeles, CA 90040-3696, USA.   |     |
|                        | C14          | DMP9-16 Digital Mixing Processor, Yahama Corporation, PO Box 1, Hamatsu, Japan.   |     |
|                        | C15          | DP/4, Ensoniq, 155 Great Valley Parkway, Malvern, PA 19355, USA.  |     |
|                        | C16          | E-Bow, Heet Sound Products. PO Box 3312, 611 Ducommun St., Los Angeles, CA 90051, USA.  |     |
| In Sul                 | C17          | EPSTEIN, "The Search for New Chemical Oscillators," in Chemical Instabilities, Nicolis and Baras (eds.), 1984, D.Reidel Publishing, Dordrecht/Boston/Lancaster.   |     |
| ms                     | C18          | EPSTEIN, IRVING R, "New Chemical Oscillators", Non-Equilibrium in Chemical Systems, 1984, Springer-Verlag, Berlin/Heidelberg, Germany.  |     |
|                        | C19          | Emie Ball, Volume Pedal, Musician's Friend Catalog.   |     |
| the                    | C20          | Etc., PETER, Letter to Editor, Experimental Musical Instruments, Jun., 1996.  |     |
|                        | C21          | EWI3020, AKAI Corperation, Box 2344 Fort-Worth, TX 76113, USA.  |     |
| Om                     | C22          | FIELD, RICHARD J., and NOYES, RICHARD M. "Oscillations in Chemical Systems IV Limit Cycle Behavior in a Model of a Real Chemical Reaction," J. Chem. Physics, Vol. 60, No. 5.Mar. 1974.   |     |

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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| INFO  | DM ATION         | פות ו | CLOSUBE  | Application Number     | 10-722,145        |  |  |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT |                  |       |          | Filing Date            | November 24, 2003 |  |  |
| SIAI  | EMENIE           | SY A  | PPLICANT | First Named Inventor   | Lester F. Ludwig  |  |  |
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| Examiner<br>Initials * | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T 2 |
|                        | C23          | GI-10 Guitar-Midi Interface, Roland Corporation, 7200 Dominion Circle, Los Angeles, CA 90040-3696, USA.   |     |
| pul                    | C24          | GRAY, PETER, and SCOTT, STEPHEN K, "Chemical Oscillations and Instabilities," 1990, Clarendon Press, Oxford, Great Britain.   |     |
|                        | C25          | GSP 21 LEGEND, Digitech, 8760 South Sandy Parkway, Sandy, UT 84070, USA.  |     |
| yuf                    | C26          | GZOWSKI, JOHN "Sirens and Sympathetics", Experimental Musical Instruments, Jun. 1997, vol. 12, No. 4.   |     |
| 1                      | C27          | HARA, YOSHIKO "Matsushita demos multilayer MPEG-4 compression", Electronic Engi-neering Times, Apr. 19, 1999.   |     |
| 1                      | C28 -        | JOHNSON, COLIN "Computer program recognizes facial expressions", Electronic Engineering Times, Apr. 12, 1999.   |     |
| MS                     | C29          | JOHNSON, COLIN "Image sensor tracks moving objects in hardware", Electronic Engineering Times, Apr. 5, 1999.  |     |
| B                      | C30          | Kaoss pad dynamic effect/controller, Korg Proview Users' magazine, Summer 1999.   |     |
|                        | C31          | KING and WHITE, "Tactile Sensing Array Based on Forming and Detecting an Optical Image," UC Berkeley Preprint.  |     |
| ins                    | C32          | KURAMOTO, YOSHIKI, "Rhythms and Turbulence in Populations of Chemical Oscillators", Physica 106A (1981), pp. 128-143, North-Holland.  |     |
| and                    | C33          | LEIBERMAN, DAVID "Software goes on a search-and-locate mission", Electronic Engineer-ing Times, Jan. 25, 1999, pp. 44.  |     |

| Examiner<br>Signature | S | lak Sketch | Date<br>Considered | 8/19/07 |
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|   |            |              |             |               | Filing Date            | November 24, 2003 |
|   | SIAI       | FMFN         | IBA         | PPLICANT      | First Named Inventor   | Lester F. Ludwig  |
|   |            |              |             |               | Group Art Unit         |                   |
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| • | Sheet      | 8            | of          | 13            | Attorney Docket Number | 2738-29           |

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| M                   | C34          | LEIBERMAN, DAVID "Touch screens extend grasp into consumer realm" Electronic Engineer-ing Times, Feb. 8, 1999.  | :  |
|                     | C35          | Light Wave Pickups, Audio Optics, Santa Barbara, CA, USA.   |    |
| Most                | C36          | LIM, AGRAWAL, and NEKLUDOVA "A Fast Algorithm for Labeling Connected Components in Image Arrays", Technical Report Series, No. NA86-2, Thinking Machines Corp., 1986 (rev. 1987), Cambridge, Mass., USA.  |    |
|                     | C37          | Lord LTS-300T Tactile Array Sensor, Lord Corp., Ind. Aut. Div., 407 Gregson Dr., PO Box 8200, Cary, NC. 27511-8200, USA.  |    |
| Mod                 | C38          | LUDWIG, L., "A Generalized Linear Amplitude Processor," Electronotes, Dec. 1979, vol. 11, No. 108.  |    |
| And                 | C39          | LUDWIG, L., "A Square-Wave Frequency-Division Sub-Octave Cross-Product Module, " Electronotes, Feb. 1979, Vol. 11, No. 98.  |    |
| nos                 | C40          | LUDWIG, L., "GLAP Revisited," Electronotes, Jul. 1981, vol. 13, No. 127.  |    |
| Mos                 | C41          | LUSHER, E. (unk) "Photoacoustic effect: principles and applications: proceedings of the First International Conference on the Photoacoustics," 1984, Vieweg.  |    |
|                     | C42          | MIDI Player MP-88, Miditemp, Max-Halbe-Strasse 1 85716 Unterschleissheim, Germany 0049-89-3-10-61-38.   |    |
| het.                | C43          | MOOG, ROBERT A. "The Human Finger-A Versatile Electronic Music Instrument Component", Audio Engineering Society Preprint, 1977, New York, NY, USA.  |    |
|                     | C44          | MS4-MS3 Solton, Ketren lab, dist. By Bell Douvox Corp. 126 Rt. 303, 10994 W. Nyack, NY, USA.  |    |

| Examiner  | 1/1   | Date               | 4/       | 10/87 |
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| INFORMATION DISCLOSURE            | Application Number     | 10-722,145        |  |
|                                   | Filing Date            | November 24, 2003 |  |
| STATEMENT BY APPLICANT            | First Named Inventor   | Lester F. Ludwig  |  |
|                                   | Group Art Unit         |                   |  |
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| - And                  | C45          | MURPHY, AAMODT, Spicer and Royce (eds) Photoacoustic and Photothermal Phenomena II, 1990, vol. 62, Springer-Verlag, Berlin Heidelberg, Germany.   |    |
| 10h                    | C46          | NAGY-UNGVARAI, Z. and HESS, BENNO "Control of Dynamic Pattern Formation in the Belous-ov-Zhabotinsky Reaction" Physica D (1991) North-Holland.  |    |
| John                   | C47          | NICOLIS, G and BARAS, F (eds.), Chemical Instabilities, 1984, D.Reidel Publishing, Dordrecht/Bos-ton/Lancaster.   |    |
| My                     | C48          | NICOLIS, G., "Nonlinear Phenomena in Chemistry", Introduction to Nonlinear Science, 1995, Cambridge University Press, Great Britain.  |    |
|                        | C49          | Omnichord OM-250m, Suzuki, Bex 261030, Sen Diego, CA 92196, USA.  |    |
| B                      | C50          | ORBAN, M., KURIN-CSORGEI, K., ZHABOTINSKY, A, and EPSTEIN, I, "New Indicators for Visualizing Pattern Formation in Uncatalyzed Bromate Oscillatory Systems", J. Am. Chem. Soc. 1998, Vol. 120, pp. 1146-1150.   |    |
|                        | C51          | PC-1600 Midi Controller, Peavy Corporation, 711 A St., Meridan, MS 39302-2898, USA.   |    |
| net                    | C52          | PENNYWITT, KIRK "Robotic Tactile Sensing," Byte, Jan., 1986.  |    |
|                        | C53          | PLM 8128E, Peavey, Corporation, 711 A St., Meridan, MS 39302-2898, USA.   |    |
|                        | C54          | PMC10 Program. MIDI Foot Controller, Digitech, Salt Lake City, UT, USA.   |    |
| M                      | C55          | Review of KORG X-230 Drum (later called "Wave Drum"), Electronic Musician, Apr. 1994.   |    |

| Examiner  | 0/1     | Date       | . / /   |
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| US.                    | C56          | RICH, ROBERT "Buchla Lightning MIDI Controller", Electronic Musician, Oct. 1991.  |
| yes                    | C57          | RICH, ROBERT "Buchla Thunder", Electronic Musician, Aug. 1990.  |
| And                    | C58          | ROADS, C., "A Tutorial on Non-linear Distortion or Waveshaping Synthesis," Computer Music Journal, Vol. 3, No. 2, pp. 29-34, June 1979, People's Computer Company, Menlo Park, CA, USA.   |
| You                    | C59          | Yamaha WX11 and WT11, Midi Magazine Mar./Apr. 1994.Yamaha Corp. of America, 6600<br>Orangethorpe Ave., PO Box 6600 Buena Park, CA 90622-6600, 714 522-9011.   |
|                        | 'C60         | Roland's COSM: A.Whole New World of Sounds, Kikumoto/Meyer, Roland Users' Magazine. 7200 Dominion Circle, Los Angeles , CA, 90040-3698, USA.  |
| chos                   | C61          | RONSE, CHRISTIAN and DEVIJVER, PIERRE A., Connected Components in Binary Images: the Detection Problem; 1984, Research Studies Press/ John Wiley & Sons Inc., New York, NY, USA.  |
|                        | C62          | RSP-550 Algorithm Guide, Roland Corporation, 7200 Dominion Circle, Los Angeles, CA 90040-3696, USA.   |
|                        | C63          | RSP-550 Owners Manual Roland Corporation, 7200 Dominion Circle, Los Angeles, CA 90040-  |
| The                    | C64          | RUOFF, P. "How Bromate Oscillators Are Controlled", Am. Chem. Society, 1988.  |
|                        | C65          | Sentient Six digital guitar interface, PASSAC, Milpitas, CA 99035, USA.   |
|                        | C66          | SGE MACH II, Applied Research and Technology, 215 Tremont St., Rochestes, NY 14608, USA:  |

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| • | STATEMENT BY APPLICANT            |               |        | PPLICANT | First Named Inventor   | Lester F. Ludwig  |  |
|   |                                   |               |        |          | Group Art Unit         |                   |  |
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| ny                  | C67          | SHAPIRO, LARRY S, Affine Analysis of Image Sequences, 1995, Press Syndicate of the Cambridge University Press.  |    |
| 16                  | C68          | SLAWSON, WAYNE, Sound Color, 1985, University of California Press, Berkeley, CA, USA.   |    |
| Ms                  | C69          | SNELL, JOHN M. "Sensors for Playing Computer Music with Expression", Proceedings of the Intl. Computer Music Conf. at Eastman, 1983.  |    |
| L                   | C70          | Switchblade 16, Sound Sculpture, 5741 Arapahoe Rd. Ste. 2a Boulder, CO 80303, USA.  |    |
|                     | `C71         | Synthophone, Softwind Instruments, 304 Newbury St. Ste. 323, Boston, MA 02155, USA.   |    |
| -ps                 | C72          | Tactile sensors and the gripping challenge, IEEE Spectrum Aug. 1985.  |    |
|                     | C73          | The Fretless Wizard, Biaxe, P.O. Box 15426, Stamford, CT, 06901-0426, USA.  |    |
|                     | C74          | Trilogy, Hipshot Music Prods. Van Nuys, NY, USA.  |    |
|                     | C75          | TYSON, JOHN J., The Belousov-ZhabotinSkii Reaction, Springer-Verlag, Berlin/Heidelberg, Germany.  |    |
|                     | C76          | Unlocking the Secrets of HRM (Harmonic Restructure Modeling), Craig Anderton, Roland Users' Magazine. 7200 Dominion Circle, Los Angeles, CA 90040-3696, USA.  |    |
|                     | C77          | Various 6D Tracking Products, Ascension Technology Corporation, PO Box 527, Burlingame, VT 05402, USA.  |    |

| Examiner<br>Signature | Mark | 4 | telchi | Date<br>Considered | <b>%</b> / | 19/ | 107 |  |
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| SIA        | IEMEN         | I BA VI      | PPLICANT   | First Named Inventor   | Lester F. Ludwig                 |  |  |
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| 100                    | C78          | VERNER, J. Artif Starr Switch Company Ztar 624-D, Electronic Musician, Nov. 1994.   |     |
|                        | C79          | VG-8 Users Manual, Roland Corporation, 7200 Dominion Circle, Los Angeles, CA, 90040-3696, USA.  |     |
| ms                     | C80          | VIBERG, MATS, Subspace Fitting Concepts in Sensor Array Processing, Linkoping Studies in Science and Technology, 1989, Dissertations No. 27 Linkoping, Sweden.  |     |
| and                    | C81          | VISINTIN, A. (ed.), Models of Hysteresis, Longman Scientific & Technical, 1993, Harlow, En-gland.   |     |
| by                     | C82          | WANG, X-J, and NICOLIS, G. "Bifurcation Phenomena in Coupled Chemical Oscillators: Normal Form Analysis and Numerical Simulations", Physica 26D (1987), pp. 140-155, North-Holland, Amsterdam.  |     |
| my                     | C83          | WESSEL, C., "A Tuturial on Non-linear Distribution or Waveshaping Synthesis", Computer Music Journal, Jun. 1979, Vol. 3, No. 2, pp. 29-34, People's Computer Company, Menlo Park, CA., USA.   |     |
| young                  | C84          | WILKINSON, SCOTT "SynchroVoice MidiVox" Electronic Musician, Jul. 1992.   |     |
| My                     | C85          | WINCKEL and FRITZ, Music Sound, and Sensation: A Modern Exposition, 1967, Dover, New York, USA.   |     |
|                        | C86          | Wind Machine, Anatek, Creation Technologies, 400 Brooksbank Ave. B.C. Canada V7J-1G9  |     |
|                        | C87          | ZTAR Midi Fingerboard Controllers-Starr Instruments/Starr Switch, 1717 Fifth Ave., San Diego, CA 92101, USA.  |     |
|                        | C88          | X5DR Al2 Synthesizer Module, KORG, Suginamiku, Tokyo, Japan.  |     |

| Examiner<br>Signature | Mark States | Date<br>Considered | 8/19/07 |
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| INEO       | DMATION           | DIC     | CLOSURE    | Application Number     | 10-722,145        |  |  |
|            |                   |         |            | Filing Date            | November 24, 2003 |  |  |
| SIAI       | EMEN! B           | YA      | PPLICANT   | First Named Inventor   | Lester F. Ludwig  |  |  |
|            |                   |         |            | Group Art Unit         |                   |  |  |
|            | (use as many sh   | eets as | necessary) | Examiner Name          |                   |  |  |
| Sheet      | 13                | of      | 13         | Attorney Docket Number | 2738-29           |  |  |

|                        | т.           | OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS   |          |
|------------------------|--------------|---|----------|
| Examiner<br>Initials * | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T²       |
| West .                 | C89          | Yamaha FS1R, Electronic Musician, Dec., 1998.   |          |
| mb                     | Č90          | LIPPOLD HAKEN, "An Indiscrete Music Keyboard," Computer Music Journal, Spring 1998, pgs. 30-48.   |          |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.